

### EXAMINER'S AMENDMENT

1. Claims 1-22 are pending in the instant application.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Frank on February 3, 2009.

The application has been amended as follows wherein the following versions of claims 1 and 11 replace all prior versions in their entirety:

Claim 1        A method of training a device for linearizing a radiofrequency amplifier which is included within a radiofrequency transmitter of a first equipment of a radiocommunication system, which transmitter is adapted for transmitting bursts according to a determined frame structure, each burst comprising symbols belonging to a determined alphabet of symbols, the method comprising the steps consisting in:

- a) generating a linearization training sequence comprising a determined number N of symbols, where N is a determined integer;
- b) transmitting the linearization training sequence by means of the transmitter in at least certain bursts transmitted and thereby generating an aggregate linearization transmission spectrum of the N symbols of the linearization training sequence;
- c) comparing the linearization training sequence transmitted with the linearization training sequence generated so as to train said linearization device, wherein a determined number N1 of symbols of the linearization training sequence sent first belong to a subalphabet of symbols included within said alphabet of symbols, said subalphabet of symbols consisting of symbols which,

when considering an aggregate spectrum of the transmission of the N1 symbols alone, produce a narrower spectrum respective to the aggregate linearization spectrum of the N symbols, and wherein N1 is a determined integer greater than one at least as large as the number of symbols in the subalphabet of symbols and the N symbols contain at least one symbol outside the subalphabet of symbols.

Claim 11      A device for training a device for linearizing a radiofrequency amplifier of a radiofrequency transmitter which is included within a first equipment of a radiocommunication system, which transmitter is adapted for transmitting bursts according to a determined frame structure, each burst comprising symbols belonging to a determined alphabet of symbols, the device comprising:

- a) means for generating a linearization training sequence comprising a determined number N of symbols, where N is a determined integer;
- b) means for transmitting the linearization training sequence by means of the transmitter in at least certain bursts transmitted;
- c) means for comparing the linearization training sequence transmitted with the linearization training sequence generated so as to train said linearization device,

wherein ~~at least~~ a determined number N1 of symbols of the linearization training sequence sent first, ~~where N1 is a determined integer less than or equal to N,~~ belong to a subalphabet of symbols included within said alphabet of symbols, said subalphabet of symbols consisting of symbols which, when considering an aggregate spectrum of the transmission of the N1 symbols, in isolation or combination, produce a narrower transmission spectrum respective to the aggregate linearization spectrum of the N symbols, and wherein N1 is a determined integer greater than one and the N symbols contain at least one symbol outside the subalphabet of symbols ~~any combination of said alphabet of symbols as a whole.~~

***Allowable Subject Matter***

3. Claims 1-22 are allowed.

***Conclusion***

4. The prior art of record not relied upon above but cited in the accompanying PTO-892 form is cited to further show the state of the art with respect to predistortion amplifiers.
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON M. PERILLA whose telephone number is (571)272-3055. The examiner can normally be reached on M-F 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason M Perilla/

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Primary Examiner, Art Unit 2611  
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